

## Abstract

The invention relates to a method for detecting an infection of a mammal with an acid-resistant microorganism, wherein (a) a stool sample of a mammal is incubated with at least two different monoclonal antibodies, fragments or derivatives thereof or aptamers under conditions allowing a complex formation of antigens of the acid-resistant microorganism with antibodies, fragments or derivatives thereof or the aptamers, and wherein (aa) the first monoclonal antibody or the fragment or the derivative thereof or the first aptamer specifically binds an epitope of the first antigen, which shows at least with some mammals a structure after the intestinal passage that corresponds to the native structure or the structure which a mammal produces antibodies against after being infected or immunised with the acid-resistant microorganism or an extract or lysate thereof or a protein therefrom or a fragment thereof or a synthetic peptide; (ab) the second monoclonal antibody or the fragment or the derivative thereof or the second aptamer specifically binds an epitope of a second antigen differing from the epitope of the first antigen, which shows at least with some mammals a structure after the intestinal passage that corresponds to the native structure or the structure which a mammal produces antibodies against after being infected or immunised with the acid-resistant microorganism or an extract or lysate thereof or a protein therefrom or a fragment thereof or a synthetic peptide, wherein the parts of the mammals may overlap according to (aa) and (ab) and in total essentially make up the overall number of infected mammals; and (b) the formation of at least one antigen-antibody complex or antigen-aptamer complex according to (aa) or (ab) is detected.